

# DDR3 Small-Outline Memory Module

## AEHx60SD00-[13H/10F] 2GB, 1GB

This Data Sheet describes features and specification of AENEON™ DDR3 SO-DIMM family of product.

### Features

- Memory modules available in densities of 2GB and 1GB
- Memory modules available in speeds of 1066MHz and 1333MHz
- 100% tested on component and module levels at rated speed and voltage
- 204-Pin Dual Inline Memory Module (DIMM) with gold contacts.
- Electrical characteristics and timing specifications are conforming to Industry standards.
- Industry standard PCB form-factor.

### Description

AENEON™ DDR3 SODIMM are assembled with 100% tested DDR3 components which are then 100% tested at the rated speed and voltage at module level ensuring compatibility on various platforms. The modules designed to run at standard DDR3 voltage of 1.5V have excellent reliability.

**TABLE 1**  
**Ordering Information**

Product Type	Module Density	Speed Grade	CAS-RCD-RP-RAS	Compliance Code
DDR3-1333H 9-9-9-27				
AEH860SD00-13H	2GB	DDR3-1333H	9-9-9-27	PC3-10600S-9
AEH760SD00-13H	1GB			
DDR3-1066F 7-7-7-21				
AEH860SD00-10F	2GB	DDR3-1066F	7-7-7-21	PC3-8500S-7
AEH760SD00-10F	1GB			

# DDR3 Small-Outline Memory Module

**TABLE 2**  
Specification

Speed Grade	DDR3-1333H	DDR3-1066F
CAS-RCD-RP latencies	9-9-9	7-7-7
Clock cycle time $t_{CK.MIN}$	1.5 ns	1.875 ns
Activate to read/write delay $t_{RCD.MIN}$	13.5 ns	13.125 ns
Row cycle time $t_{RC.MIN}$	49.5 ns	50.625 ns
Row active time $t_{RAS.MIN}$	36 ns	37.5 ns
Refresh row cycle time $t_{RFC.MIN}$	110 ns	
Single power supply $V_{DD} = V_{DDQ}$	1.5 V $\pm$ 0.1 V	
Module dimensions L x W x H (max)	67.6 mm x 30.0 mm x 4.0 mm	
	2.66" x 1.18" x 0.16"	
DRAM Case Temperature $T_{CASE}$ (min / max)	0°C / 85°C	

**Please Note**

The information herein is given to describe certain components and shall not be considered as a guarantee of characteristics. Terms of delivery and rights to technical change reserved. We hereby disclaim any and all warranties, including but not limited to warranties of non-infringement, regarding circuits, descriptions, and charts stated herein.

**Warnings**

Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest distribution partner.

Components may only be used in life support devices or systems with the express written approval of Qimonda AG, if a failure of such components can reasonably be expected to cause the failure of that life support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.